

Xiang Ji

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EDUCATION

UNIVERSITÄT TÜBINGEN

MA IN COMPUTATIONAL LINGUISTICS

Grad. Mar. 2019 | Tübingen, Germany

GPA: 1.1 (Best possible 1.0)

UNIVERSIDAD CATÓLICA DE CHILE

COMPUTER ENGINEERING (EXCHANGE)

Aug. 2013 - Jun. 2014 | Santiago de Chile

UNIVERSITY OF HONG KONG

BENG IN COMPUTER SCIENCE

Grad. May 2016 | Hong Kong

LINKS

Blog: xiangji.me

StackExchange: [xji](#)

Github: [x-ji](#)

SKILLS

PROGRAMMING

Comfortable:

Elixir • JavaScript • HTML • CSS

Familiar:

Python • Ruby • Haskell • R • Julia • Rust •

Java • C • SQL

Miscellaneous:

Vim • Git • Unix • Docker • GraphQL •

RabbitMQ • TensorFlow • \LaTeX

LANGUAGES

Native:

Mandarin Chinese

Professional working proficiency:

English (SAT 2290) • German (B2-C1) •

Spanish (C1)

Limited working proficiency:

Japanese • Cantonese

COURSEWORK

Functional Programming

Programming Languages

Compiling Techniques

Distributed Computing

Deep Learning for NLP

Unsupervised Learning for NLP

Information Retrieval

Bayesian Data Analysis and Modeling

Regression Modeling Strategies

Artificial Intelligence

Mobile Application Design and Programming

Operating Systems

Computer Networking

EXPERIENCE

KLOECKNER.I GMBH | ELIXIR DEVELOPER

May 2019 – Present | Berlin

- Scaled Elixir projects by clustering BEAM VM nodes deployed with Kubernetes.
- Involved in design decisions regarding an event-driven architecture using RabbitMQ.
- Designed and built REST/GraphQL endpoints from scratch.
- Frontend development in Vue.js.
- Led two squads that delivered the assigned epics ahead of schedule.
- Perform job interviews and on-call duty, and regularly contribute to the *engineering blog*.

_MAGPIE PROJECT | ELIXIR DEVELOPER

May 2017 – March 2019 | Tübingen

- *_magpie* is an open-source framework for online linguistics/psychology experiments launched by *Prof. Michael Franke*.
- Solely developed the *backend* which supports interactive experiments similar to online multiplayer games, using Phoenix Channels.
- Deployed and administered the project on the university server using Distillery (later Elixir native release) and HAProxy. Set up CI/CD pipeline.
- Contributed to *frontend* development first in plain JS, then in Vue.js.
- More than a hundred experiments have been conducted by researchers at Uni Tübingen/Osnabrück/Stanford using the framework.

DATA STRUCTURES: NEW PERSPECTIVES | TRANSLATOR

2018 | Tübingen

- Solely translated from Chinese to English a university textbook on data structures by Prof. Xingni Zhou.
- *Book* published in 2020 by De Gruyter.

SPACIOUS | RUBY DEVELOPER

September 2014 – May 2015 | Hong Kong

- Full-stack web development with Ruby on Rails and mobile app development with Appcelerator Titanium (in JavaScript).

RESEARCH

HKU PL GROUP | RESEARCH ASSISTANT

July 2015 - May 2016 | The University of Hong Kong

- Worked with *Dr. Bruno C.d.S. Oliveira* on a modular programming language prototyping framework powered by Oracle Graal/Truffle.

PROJECTS

TYPIST.ROCKS | SIDE PROJECT

2018

- *Typist.rocks* is a website for practicing touch typing skills.
- Full-stack web development with Phoenix Framework and Typescript.

NAMED ENTITY RECOGNITION WITH TENSORFLOW | COURSE

PROJECT

2017 | Universität Tübingen

- Performed named entity recognition on a German corpus with a sentence-level LSTM network and a character-level RNN network.